

19/06/2019





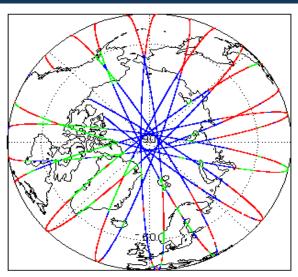
# 1. Overview

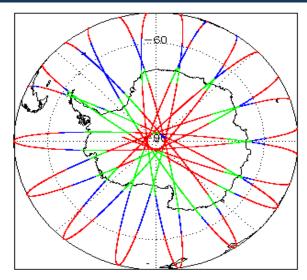
Report Production:	18-Jul-2019
Processor Used:	CryoSat Ocean Processor
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data

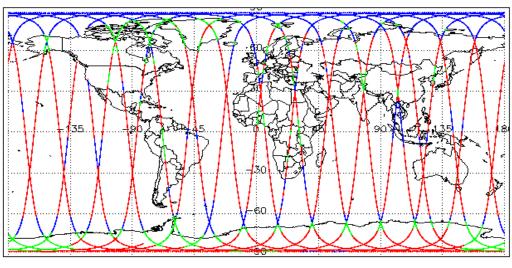
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	See Section 6.5
Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
Ocean Retracking Quality Check	See Section 5.7	See Section 6.7

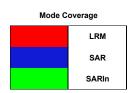
Mission / Instrument News		
18-Jun-2019	None	
19-Jun-2019	None	
20-Jun-2019	Nothing planned	

# 2. Global Coverage









# 3. Instrument Configuration

The SIRAL instrument configuration for the day of acquisition is provided below.

SIRAL instrument(s) in use: SIRAL - A

# 4. GOP Level 1B Data Quality Check

# 4.1 L1B Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL).

#### 4.2 L1B Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.

L1B Processing Quality HR: The I1b\_proc\_flag\_hr flag is currently set all L1B GOPR and GOPN products because the I1b\_processing\_quality\_hr field is not correctly configured in the OSAR and OSARIn chains. A modification is required in the next release

Number of products with errors:

# 4.3 L1B Auxilary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.

Number of products with errors:

0

#### 4.4 L1B Auxiliary Correction Error Check

CryoSat L1B data includes a correction error flag for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

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#### 4.5 L1B Measurement Confidence Data Check

CryoSat L1B data includes a measurement confidence flag for each measurement record. The bit value of this flag indicates any problems when set.

Attitude Correction Missing: This flag is currently set in error for GOPR products due to a configuration issue. This is being investigated and will be updated in the next SW update.

Number of products with errors:

4

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20190619T040038_20190619T040308_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_GOPM1B_20190619T115041_20190619T115450_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_GOPM1B_20190619T135056_20190619T135640_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_GOPM1B_20190619T214012_20190619T215501_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

# 4.6 L1B Waveform Group Data Check

CryoSat L1B data includes a waveform data flag for each measurement record. The bit value of this flag indicates any problems when set.

Loss of Echo Flag: This flag is currently set for some products over land, but this is to be expected.

Number of products with errors:

17

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Loss of Echo	The tracking echo is missing for one or more records
Loss of Echo	The tracking echo is missing for one or more records
Loss of Echo	The tracking echo is missing for one or more records
Loss of Echo	The tracking echo is missing for one or more records
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Loss of Echo	The tracking echo is missing for one or more records
	Loss of Echo

## 5. GOP Level 2 Data Quality Check

# 5.1 L2 Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL).

Number of products with errors:

# 5.2 L2 Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.

Number of products with errors:

# 5.3 L2 Auxiliary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.

Number of products with errors:

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## 5.4 L2 Auxiliary Correction Error Check

For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767).

Currently, there are some common auxiliary correction errors raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

- > ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are not reported in the table below.
- > Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected.
- > Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.

Number of products with errors:

61

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20190619T022406_20190619T022429_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPM_2_20190619T022429_20190619T022440_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPM_2_20190619T172831_20190619T173054_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20190619T005326_20190619T005546_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20190619T013608_20190619T013757_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20190619T023302_20190619T023741_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20190619T031546_20190619T031723_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20190619T045533_20190619T045921_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20190619T053412_20190619T053603_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20190619T063510_20190619T063826_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20190619T064338_20190619T064500_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20190619T072602_20190619T072647_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20190619T082247_20190619T082354_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20190619T090144_20190619T090359_C001	mean Sea Suriace (1), mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	There is an error with the MSS neight (solution 1) and the Mean Dynamic Topography height (solution 1). Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records.
CS_OFFL_SIR_GOPN_2_20190619T090458_20190619T090617_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20190619T103935_20190619T104224_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20190619T104402_20190619T104528_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20190619T113817_20190619T114056_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20190619T114130_20190619T114432_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20190619T121956_20190619T122130_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20190619T122135_20190619T122419_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20190619T131732_20190619T132055_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20190619T135851_20190619T140241_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20190619T145836_20190619T145952_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20190619T163740_20190619T163900_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20190619T171531_20190619T171654_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20190619T173614_20190619T173628_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20190619T180742_20190619T180908_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records

CS_OFFL_SIR_GOPN_2_20190619T181432_20190619T181743_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20190619T194720_20190619T194835_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20190619T195330_20190619T195655_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20190619T212806_20190619T213042_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20190619T213235_20190619T213902_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20190619T222315_20190619T222436_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPN_2_20190619T222739_20190619T222954_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPN_2_20190619T230325_20190619T230933_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20190619T004721_20190619T005326_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20190619T022848_20190619T023302_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the GPD Wet Tropospheric correction, the MSS height (solution 1) and tidal corrections for one or more records
CS_OFFL_SIR_GOPR_2_20190619T040532_20190619T041344_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20190619T054644_20190619T055431_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20190619T071722_20190619T071825_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20190619T071825_20190619T072312_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20190619T072647_20190619T073544_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20190619T090617_20190619T091344_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20190619T104528_20190619T105048_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20190619T122419_20190619T123131_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20190619T140241_20190619T140756_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20190619T153933_20190619T154829_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20190619T171858_20190619T172831_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20190619T173556_20190619T173614_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20190619T173628_20190619T173745_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20190619T185608_20190619T190421_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20190619T190421_20190619T190550_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20190619T203644_20190619T204319_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20190619T204319_20190619T204745_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20190619T221554_20190619T222206_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20190619T222206_20190619T222315_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20190619T224538_20190619T224752_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPR_2_20190619T235541_20190619T235641_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOPR_2_20190619T235813_20190619T235955_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOPR_2_20190619T235955_20190620T000235_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

#### 5.5 L2 Measurement Confidence Data Check

CryoSat L2 data includes a measurement confidence flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

# 5.6 L2 Measurement Quality Flag Check

# L2 Quality Flags (20Hz)

CryoSat L2 data includes Quality Flags for each 20 Hz, 20 Hz PLRM and 1 Hz measurement record. The bit value of this flag indicates any problems when set.

Currently, there are several common flags raised in the Level 2 products, which are summarised below. The table provides the full list of products flagged.

- > Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags: These flags are currently set for some records over ocean.
- > OCOG Altimeter Range and Backscatter Quality Flags: These flags are currently set for some records over continental ice.

Number of products with errors:

77

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20190618T235952_20190619T000247_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190619T000256_20190619T000727_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190619T001013_20190619T002415_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190619T011117_20190619T013443_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190619T013757_20190619T014628_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190619T014954_20190619T021427_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190619T024637_20190619T025707_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190619T030240_20190619T031334_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190619T032010_20190619T032427_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190619T032848_20190619T035521_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190619T035526_20190619T035735_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190619T040505_20190619T040532_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190619T042043_20190619T043621_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190619T044152_20190619T045211_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190619T045921_20190619T050507_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190619T050752_20190619T051247_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190619T054406_20190619T054514_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190619T055812_20190619T063140_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190619T063826_20190619T064338_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190619T064723_20190619T070457_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190619T073544_20190619T080532_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190619T080542_20190619T081024_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_GOPM_2_20190619T081630_20190619T081826_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have for one or more records.
CS_OFFL_SIR_GOPM_2_20190619T082724_20190619T090038_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Qualit and the OCOG Altimeter Range and Backscatter Quality Flags has set for one or more records.
CS_OFFL_SIR_GOPM_2_20190619T091344_20190619T093009_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags has set for one or more records.
CS_OFFL_SIR_GOPM_2_20190619T093239_20190619T093510_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags has set for one or more records.
CS_OFFL_SIR_GOPM_2_20190619T093515_20190619T094944_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags has set for one or more records.
CS_OFFL_SIR_GOPM_2_20190619T095202_20190619T095724_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have t for one or more records.
CS_OFFL_SIR_GOPM_2_20190619T100834_20190619T102057_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Qualit and the OCOG Altimeter Range and Backscatter Quality Flags has te for one or more records.
CS_OFFL_SIR_GOPM_2_20190619T102232_20190619T103935_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Qualit and the OCOG Altimeter Range and Backscatter Quality Flags has te for one or more records.
CS_OFFL_SIR_GOPM_2_20190619T110133_20190619T111157_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Qualit and the OCOG Altimeter Range and Backscatter Quality Flags has te for one or more records.
CS_OFFL_SIR_GOPM_2_20190619T111400_20190619T112840_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Qualit and the OCOG Altimeter Range and Backscatter Quality Flags has set for one or more records.
CS_OFFL_SIR_GOPM_2_20190619T113128_20190619T113623_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have t for one or more records.
CS_OFFL_SIR_GOPM_2_20190619T114457_20190619T114844_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Qualit and the OCOG Altimeter Range and Backscatter Quality Flags has te for one or more records.
CS_OFFL_SIR_GOPM_2_20190619T120225_20190619T121520_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags has set for one or more records.
CS_OFFL_SIR_GOPM_2_20190619T125249_20190619T130736_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Qualit and the OCOG Altimeter Range and Backscatter Quality Flags has te for one or more records.
CS_OFFL_SIR_GOPM_2_20190619T131106_20190619T131551_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have I for one or more records.
CS_OFFL_SIR_GOPM_2_20190619T132259_20190619T134857_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Qualit and the OCOG Altimeter Range and Backscatter Quality Flags has set for one or more records.
CS_OFFL_SIR_GOPM_2_20190619T135803_20190619T135851_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have I for one or more records.
CS_OFFL_SIR_GOPM_2_20190619T141923_20190619T142000_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have I for one or more records.
CS_OFFL_SIR_GOPM_2_20190619T142205_20190619T144702_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags has set for one or more records.
CS_OFFL_SIR_GOPM_2_20190619T145056_20190619T145450_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have I for one or more records.
CS_OFFL_SIR_GOPM_2_20190619T150202_20190619T151306_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Qualit and the OCOG Altimeter Range and Backscatter Quality Flags ha set for one or more records.
CS_OFFL_SIR_GOPM_2_20190619T151838_20190619T152832_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Qualit and the OCOG Altimeter Range and Backscatter Quality Flags has set for one or more records.
CS_OFFL_SIR_GOPM_2_20190619T155119_20190619T160105_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have t for one or more records.
CS_OFFL_SIR_GOPM_2_20190619T160107_20190619T162630_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Qualit and the OCOG Altimeter Range and Backscatter Quality Flags has set for one or more records.
CS_OFFL_SIR_GOPM_2_20190619T162918_20190619T163404_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have t for one or more records.
CS_OFFL_SIR_GOPM_2_20190619T164201_20190619T171531_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Qualit and the OCOG Altimeter Range and Backscatter Quality Flags has et for one or more records.
CS_OFFL_SIR_GOPM_2_20190619T172831_20190619T173054_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags hat set for one or more records.

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Second Country   Seco	CS_OFFL_SIR_GOPM_2_20190619T180016_20190619T180217_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Big   Pirt   Big   COPM 2, 201000197149, 201000197149000	CS_OFFL_SIR_GOPM_2_20190619T180908_20190619T181432_C001		
Dispute   Disp	CS_OFFL_SIR_GOPM_2_20190619T182118_20190619T184237_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_CFTL_SR_COPM_2_2019619T196587_2019619T196586_2031	CS_OFFL_SIR_GOPM_2_20190619T184522_20190619T185608_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_DPFL_SR_GOPM_2_20100619712007_D0110019712007_D	CS_OFFL_SIR_GOPM_2_20190619T190659_20190619T191027_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
as Baskosater Quality, COOD Affinited Flagge and Baskosater Quality (Flags have been effort use in non-recoval).  CB_OFFL_SIR_GOPM_2_20100019720013_20100019721503_COOD Affinited Flagge and Baskosater Quality (COOD Affinited Flagge and Baskosater Quality).  CB_OFFL_SIR_GOPM_2_20100019720012_20100019721503_COOD Affinited Flagge and Baskosater Quality.  CB_OFFL_SIR_GOPM_2_20100019722013_20100019722013_COOD Affinited Flagge and Baskosater Quality.  CB_OFFL_SIR_GOPM_2_20100019722013_20100019722013_COOD Affinited Flagge and Baskosater Quality.  CB_OFFL_SIR_GOPM_2_20100019722003_20100019722013_COOD Affinited Flagge and Baskosater Quality.  CB_OFFL_SIR_GOPM_2_20100019722003_20100019722013_COOD Affinited Flagge and Baskosater Quality.  CB_OFFL_SIR_GOPM_2_20100019722003_20100019722013_COOD Affinited Flagge and Baskosater Quality.  CB_OFFL_SIR_GOPM_2_20100019722003_20100019722003_COOD Affinited Flagge and Baskosater Quality.  CB_OFFL_SIR_GOPM_2_20100019723003_20100019723003_COOD Affinited Flagge and Baskosater Quality.  CB_OFFL_SIR_GOPM_2_2010001973003_20100019723003_COOD Affinited Flagge and Baskosater Quality.  CB_OFFL_SIR_GOPM_2_2010001973003_20100019713005_COOD Affinited	CS_OFFL_SIR_GOPM_2_20190619T192637_20190619T194348_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPM_2_201908197231912_01908197124092_0001  CS_OFFL_SIR_GOPM_2_20190819724012_0190819724092_0001  CS_OFFL_SIR_GOPM_2_20190819722094_0001  CS_OFFL_SIR_GOPM_2_20190819722094_0001  CS_OFFL_SIR_GOPM_2_20190819722094_0001  CS_OFFL_SIR_GOPM_2_20190819722094_0001  CS_OFFL_SIR_GOPM_2_20190819722094_0001  CS_OFFL_SIR_GOPM_2_20190819722094_0001  CS_OFFL_SIR_GOPM_2_20190819722094_0001  CS_OFFL_SIR_GOPM_2_20190819722094_0001  CS_OFFL_SIR_GOPM_2_20190819722094_0001  CS_OFFL_SIR_GOPM_2_20190819722004_0001  CS_OFFL_SIR_GOPM_2_20190819722004_0001  CS_OFFL_SIR_GOPM_2_20190819722004_0001  CS_OFFL_SIR_GOPM_2_20190819722004_0001  CS_OFFL_SIR_GOPM_2_20190819722004_0001  CS_OFFL_SIR_GOPM_2_20190819722004_0001  CS_OFFL_SIR_GOPM_2_20190819722004_0001  CS_OFFL_SIR_GOPM_2_20190819723005_000197221404_0001  CS_OFFL_SIR_GOPM_2_20190819723005_000197224047_0001  CS_OFFL_SIR_GOPM_2_20190819723005_0001972	CS_OFFL_SIR_GOPM_2_20190619T200029_20190619T203253_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Deukscateric Apally.  CS_OFFL_SIR_COPM 2_201906197220137_201906197220524_CO01  Altimater Range and Backscateric Apally.  CS_OFFL_SIR_COPM 2_201906197220137_201906197220524_CO01  CS_OFFL_SIR_COPM 2_201906197220137_201906197220524_CO01  CS_OFFL_SIR_COPM 2_20190619722003_0190619724558_CO01  CS_OFFL_SIR_COPM 2_20190619722003_0190619724558_CO01  CS_OFFL_SIR_COPM 2_20190619722003_0190619724558_CO01  CS_OFFL_SIR_COPM 2_20190619722003_0190619724558_CO01  CS_OFFL_SIR_COPM 2_20190619722003_0190619724558_CO01  CS_OFFL_SIR_COPM 2_2019061972203_01906197200245_CO01  CS_OFFL_SIR_COPM 2_2019061972203_01906197200245_CO01  CS_OFFL_SIR_COPM 2_2019061972203_01906197200245_CO01  CS_OFFL_SIR_COPM 2_2019061972203_01906197200245_CO01  CS_OFFL_SIR_COPM 2_2019061972203_01906197200245_CO01  CS_OFFL_SIR_COPM 2_2019061972003_01906197200245_CO01  CS_OFFL_SIR_COPM 2_2019061972003_01906197200245_CO01  CS_OFFL_SIR_COPM 2_2019061972003_01906197200245_CO01  CS_OFFL_SIR_COPM 2_2019061972003_01906197200245_CO01  CS_OFFL_SIR_COPM 2_2019061972003_0190619720045_CO01  CS_OFFL_SIR_COPM 2_20190619720040_0190619720045_CO01  CS_OFFL_SIR_COPM 2_20190619720040_0190619720045_CO01  CS_OFFL_SIR_COPM 2_20190619720040_0190619720045_CO01  CS_OFFL_SIR_COPM 2_20190619720040_0190619720040_CO01  CS_OFFL_SIR_COPM 2_20190619720040_0190619720040_CO01  CS_OFFL_SIR_COPM 2_20190619720040_CO01  CS_OFFL_SIR_COPM 2_20190619720040_CO01  CS_OFFL_SIR_COPM 2_201906197004000_0100619720040_CO01  CS_OFFL_SIR_COPM 2_201906197004000_0100619720040_CO01  CS_OFFL_SIR_COPM 2_201906197004000_0100619720040_CO01  CS_OFFL_SIR_COPM 2_2019061970040000000000000000000000000000000000	CS_OFFL_SIR_GOPM_2_20190619T205515_20190619T212108_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and the COGA Althreater Range and Backscatter Quality Flags have been set to cone or more records.  CS_OFFL_SIR_OOPM_2_201906197229044_20190619724554_C001  CS_OFFL_SIR_OOPM_2_20190619722903_20190619724554_C001  CS_OFFL_SIR_OOPM_2_20190619722903_20190619724538_C001  Althreater Range Company (Company Company Co	CS_OFFL_SIR_GOPM_2_20190619T214012_20190619T215501_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_GOPM_2_201906197224030_20190619723452.  CS_OFFL_SIR_GOPM_2_201906197224752_0190619723045_CO01  CS_OFFL_SIR_GOPM_2_201906197230932_0190619723148_CO01  CS_OFFL_SIR_GOPM_2_201906197231229_20190619723148_CO01  CS_OFFL_SIR_GOPM_2_201906197231229_20190619723148_CO01  CS_OFFL_SIR_GOPM_2_201906197231229_20190619723148_CO01  CS_OFFL_SIR_GOPM_2_201906197231229_201906197231240_CO01  CS_OFFL_SIR_GOPM_2_201906197231229_201906197231240_CO01  CS_OFFL_SIR_GOPM_2_201906197231229_201906197231240_CO01  CS_OFFL_SIR_GOPM_2_201906197231229_201906197231240_CO01  CS_OFFL_SIR_GOPM_2_201906197231229_201906197231240_CO01  CS_OFFL_SIR_GOPM_2_201906197231229_201906197231240_CO01  CS_OFFL_SIR_GOPM_2_201906197231220_CO190619723120_CO190619723120	CS_OFFL_SIR_GOPM_2_20190619T220137_20190619T220924_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Countily, COCG Allmeter Range and Backscatter Countily Flags have been set for one or more records.  CS_OFFL_SIR_GOPM_2_20190619T224782_20190619T230245_C001  CS_OFFL_SIR_GOPM_2_20190619T224782_20190619T230245_C001  CS_OFFL_SIR_GOPM_2_20190619T230333_20190619T231148_C001  CS_OFFL_SIR_GOPM_2_20190619T230333_20190619T231047_C001  CS_OFFL_SIR_GOPM_2_20190619T231012_20190019T231047_C001  CS_OFFL_SIR_GOPM_2_20190619T231012_20190019T233325_C001  CS_OFFL_SIR_GOPM_2_20190619T231012_20190019T233325_C001  CS_OFFL_SIR_GOPM_2_20190619T230342_20190019T23325_C001  CS_OFFL_SIR_GOPM_2_20190619T230342_20190019T234026_C001  CS_OFFL_SIR_GOPM_2_20190619T230342_20190019T234026_C001  CS_OFFL_SIR_GOPM_2_20190619T230342_20190019T234026_C001  CS_OFFL_SIR_GOPM_2_20190619T230342_20190019T234026_C001  CS_OFFL_SIR_GOPM_2_20190619T230342_20190019T234026_C001  CS_OFFL_SIR_GOPM_2_20190619T230342_20190019T234026_C001  CS_OFFL_SIR_GOPM_2_20190619T230342_20190019T234026_C001  CS_OFFL_SIR_GOPM_2_20190619T230342_20190019T234026_C001  CS_OFFL_SIR_GOPM_2_20190619T230342_20190019T23402_C001  CS_OFFL_SIR_GOPM_2_20190619T230342_20190019T23402_C001  CS_OFFL_SIR_GOPM_2_20190619T230342_20190019T23402_C001  CS_OFFL_SIR_GOPM_2_20190619T230342_20190019T02406_C001  CS_OFFL_SIR_GOPM_2_20190619T146450_20190619T02406_C001  CS_OFFL_SIR_GOPM_2_20190619T164500_20190619T02406_C001  CS_OFFL_SIR_GOPM_2_20190619T164500_20190619T164455_C001  CCG_OFFL_SIR_GOPM_2_20190619T164500_20190619T164500_C001  CCG_OFFL_SIR_GOPM_2_20190619T164500_20190619T1644500_C001  CCG_OFFL_SIR_GOPM_2_20190619T164404_20190619T164406_C001  CCG_OFFL_SIR_GOPM_2_20190619T1030404_20190619T164406_C001  CCG_OFFL_SIR_GOPM_2_20190619T1030404_20190619T164406_C001  CCG_OFFL_SIR_GOPM_2_20190619T1030404_20190619T164406_C001  CCG_OFFL_SIR_GOPM_2_20190619T1030404_20190619T164406_C001  CCG_OFFL_SIR_GOPM_2_20190619T1030404_20190619T164406_C001  CCG_OFFL_SIR_GOPM_2_20190619T1030404_20190619T164406_C001  CCG_OFFL_SIR_GOPM_2_20190619T10303404_20190619T164406_C001  CCG_OFFL_SIR_GOPM_2_20190619T1030340	CS_OFFL_SIR_GOPM_2_20190619T220944_20190619T221554_C001		
CS_OFFL_SIR_GOPM_2_20190619T230243_20190619T231148_C001  CS_OFFL_SIR_GOPM_2_20190619T230333_20190619T231148_C001  CS_OFFL_SIR_GOPM_2_20190619T231222_20190619T231647_C001  CS_OFFL_SIR_GOPM_2_20190619T231222_20190619T231647_C001  CS_OFFL_SIR_GOPM_2_20190619T231222_20190619T231647_C001  CS_OFFL_SIR_GOPM_2_20190619T23122_20190619T23052_C001  CS_OFFL_SIR_GOPM_2_20190619T233522_C001  CS_OFFL_SIR_GOPM_2_20190619T233642_20190619T234028_C001  CS_OFFL_SIR_GOPM_2_20190619T233642_20190619T234028_C001  CS_OFFL_SIR_GOPM_2_20190619T33642_20190619T234028_C001  CS_OFFL_SIR_GOPM_2_20190619T33642_20190619T234028_C001  CS_OFFL_SIR_GOPM_2_20190619T364338_20190619T02406_C001  CS_OFFL_SIR_GOPM_2_20190619T364338_20190619T02406_C001  CS_OFFL_SIR_GOPM_2_20190619T1645450_20190619T164500_C001  CS_OFFL_SIR_GOPM_2_20190619T184042_20190619T164500_C001  CS_OFFL_SIR_GOPM_2_20190619T184042_20190619T164500_C001  CS_OFFL_SIR_GOPM_2_20190619T183404_20190619T164500_C001  CS_OFFL_SIR_GOPM_2_20190619T183404_20190619T164500_C001  CS_OFFL_SIR_GOPM_2_20190619T183404_20190619T164500_C001  CS_OFFL_SIR_GOPM_2_20190619T183404_20190619T164500_C001  CS_OFFL_SIR_GOPM_2_20190619T183444_20190619T183400_C001  CS_OFFL_SIR_GOPM_2_20190619T183404_20190619T183400_C001  CS_OFFL_SIR_GOPM_2_20190619T183404_20190619T183400_C001  CS_OFFL_SIR_GOPM_2_20190619T183404_20190619T183000_C001  CS_OFFL_SIR_GOPM_2_20190619T183404_20190619T183000_C001  CS_OFFL_SIR_GOPM_2_20190619T183404_20190619T183000_C001  CS_OFFL_SIR_GOPM_2_20190619T183404_20190619T183000_C001  CS_OFFL_SIR_GOPM_2_20190619T183404_20190619T183000_C001  CS_OFFL_SIR_GOPM_2_20190619T183404_20190619T183000_C001  CS_OFFL_SIR_GOPM_2_20190619T183444_20190619T183000_C001  CS_OFFL_SIR_GOPM_2_20190619T183404_20190619T183000_C001  CS_OFFL_SIR_GOPM_2_20190619T183404_20190619T183000_C001  CS_OFFL_SIR_GOPM_2_20190619T183404_20190619T183000_C001  CS_OFFL_SIR_GOPM_2_20190619T183404_20190619T183000_C001  CS_OFFL_SIR_GOPM_2_20190619T183404_20190619T183000_C001  CS_OFFL_SIR_GOPM_2_20190619T10833_20190619T1031546_C001  CS_OFFL_SIR_GOP	CS_OFFL_SIR_GOPM_2_20190619T223003_20190619T224538_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality for one or more records.  CS_OFFL_SIR_GOPM_2_20190619T231229_20190619T231647_C001  CS_OFFL_SIR_GOPM_2_20190619T231292_20190619T233325_C001  CS_OFFL_SIR_GOPM_2_20190619T231912_20190619T233325_C001  CS_OFFL_SIR_GOPM_2_20190619T23342_20190619T2334928_C001  CS_OFFL_SIR_GOPM_2_20190619T23342_20190619T234928_C001  CS_OFFL_SIR_GOPM_2_20190619T23342_20190619T234928_C001  CS_OFFL_SIR_GOPM_2_20190619T23342_20190619T022406_C001  CS_OFFL_SIR_GOPM_2_20190619T02243_20190619T022406_C001  CS_OFFL_SIR_GOPM_2_20190619T02433_20190619T02406_C001  CS_OFFL_SIR_GOPM_2_20190619T04338_20190619T04500_C001  CS_OFFL_SIR_GOPM_2_20190619T145450_20190619T145455_C001  CS_OFFL_SIR_GOPM_2_20190619T145450_20190619T145455_C001  CS_OFFL_SIR_GOPM_2_20190619T163404_20190619T163409_C001  CS_OFFL_SIR_GOPM_2_20190619T173614_20190619T163096_C001  CS_OFFL_SIR_GOPM_2_20190619T173614_20190619T176256_C001  CS_OFFL_SIR_GOPM_2_20190619T10083_20190619T010955_C001  CS_OFFL_SIR_GOPM_2_20190619T01083_20190619T010955_C001  CS_OFFL_SIR_GOPM_2_20190	CS_OFFL_SIR_GOPM_2_20190619T224752_20190619T230245_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_GOPM_2_20190619T231912_20190619T233325_C001  CS_OFFL_SIR_GOPM_2_20190619T231912_20190619T23325_C001  CS_OFFL_SIR_GOPM_2_20190619T233264_20190619T234928_C001  CS_OFFL_SIR_GOPM_2_20190619T233642_20190619T234928_C001  CS_OFFL_SIR_GOPM_2_20190619T022243_20190619T022406_C001  CS_OFFL_SIR_GOPM_2_20190619T022243_20190619T022406_C001  CS_OFFL_SIR_GOPM_2_20190619T022243_20190619T022406_C001  CS_OFFL_SIR_GOPM_2_20190619T022243_20190619T022406_C001  CS_OFFL_SIR_GOPM_2_20190619T064338_20190619T064500_C001  CS_OFFL_SIR_GOPM_2_20190619T164545_C001  CS_OFFL_SIR_GOPM_2_20190619T163404_20190619T164505_C001  CS_OFFL_SIR_GOPM_2_20190619T163404_20190619T163406_C001  CS_OFFL_SIR_GOPM_2_20190619T163404_20190619T163406_C001  CS_OFFL_SIR_GOPM_2_20190619T163404_20190619T173628_C001  CS_OFFL_SIR_GOPM_2_20190619T163404_20190619T173628_C001  CS_OFFL_SIR_GOPM_2_20190619T163404_20190619T173628_C001  CS_OFFL_SIR_GOPM_2_20190619T163404_20190619T173628_C001  CS_OFFL_SIR_GOPM_2_20190619T163404_20190619T173628_C001  CS_OFFL_SIR_GOPM_2_20190619T1630404_20190619T173628_C001  CS_OFFL_SIR_GOPM_2_20190619T1630404_20190619T173628_C001  CS_OFFL_SIR_GOPM_2_20190619T1630404_20190619T173628_C001  CS_OFFL_SIR_GOPM_2_20190619T1630404_20190619T173628_C001  CS_OFFL_SIR_GOPM_2_20190619T1630404_20190619T173628_C001  CS_OFFL_SIR_GOPM_2_20190619T173614_20190619T173628_C001  CS_OFFL_SIR_GOPM_2_20190619T173614_2019061	CS_OFFL_SIR_GOPM_2_20190619T230933_20190619T231148_C001		
and Backscatter Quality, COCG Altimeter Range and Backscatter Quality, Flags have been at for one or more records.  CS_OFFL_SIR_GOPM_2_20190619T233642_20190619T234928_CO01  CS_OFFL_SIR_GOPM_2_20190619T02243_20190619T022406_CO01  CS_OFFL_SIR_GOPM_2_20190619T022243_20190619T022406_CO01  CS_OFFL_SIR_GOPM_2_20190619T022243_20190619T022406_CO01  CS_OFFL_SIR_GOPM_2_20190619T022243_20190619T022406_CO01  CS_OFFL_SIR_GOPM_2_20190619T064338_20190619T064500_CO01  CS_OFFL_SIR_GOPM_2_20190619T064338_20190619T064500_CO01  CS_OFFL_SIR_GOPM_2_20190619T145450_20190619T145455_CO01  CS_OFFL_SIR_GOPM_2_20190619T145450_20190619T145455_CO01  CS_OFFL_SIR_GOPM_2_20190619T145450_20190619T163409_CO01  CS_OFFL_SIR_GOPM_2_20190619T163404_20190619T163409_CO01  CS_OFFL_SIR_GOPM_2_20190619T173614_20190619T173628_CO01  CS_OFFL_SIR_GOPM_2_20190619T173614_20190619T180908_CO01  CS_OFFL_SIR_GOPM_2_20190619T180742_20190619T180908_CO01  CS_OFFL_SIR_GOPM_2_20190619T180742_20190619T180908_CO01  CS_OFFL_SIR_GOPM_2_20190619T180742_20190619T180908_CO01  CS_OFFL_SIR_GOPM_2_20190619T10833_20190619T10955_CO01  CS_OFFL_SIR_GOPM_2_20190619T10833_20190619T010955_CO01  CS_OFFL_SIR_GOPM_2_20190619T010833_20190619T010955_CO01  CS_OFFL_SIR_GOPM_2_20190619T010833_20190619T010955_CO	CS_OFFL_SIR_GOPM_2_20190619T231229_20190619T231647_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range Altimete	CS_OFFL_SIR_GOPM_2_20190619T231912_20190619T233325_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPN_2_20190619T163438_20190619T064500_C001  CS_OFFL_SIR_GOPN_2_20190619T163404_20190619T145455_C001  CS_OFFL_SIR_GOPN_2_20190619T163404_20190619T163409_C001  CS_OFFL_SIR_GOPN_2_20190619T163404_20190619T163409_C001  CS_OFFL_SIR_GOPN_2_20190619T163404_20190619T163409_C001  CS_OFFL_SIR_GOPN_2_20190619T163404_20190619T163409_C001  CS_OFFL_SIR_GOPN_2_20190619T163404_20190619T163409_C001  CS_OFFL_SIR_GOPN_2_20190619T163404_20190619T173628_C001  CS_OFFL_SIR_GOPN_2_20190619T173614_20190619T173628_C001  CS_OFFL_SIR_GOPN_2_20190619T180742_20190619T180908_C001  CS_OFFL_SIR_GOPN_2_20190619T180742_20190619T180908_C001  CS_OFFL_SIR_GOPR_2_20190619T180742_20190619T180908_C001  CS_OFFL_SIR_GOPR_2_20190619T010833_20190619T010955_C001  CS_OFFL_SIR_GOPR_2_20190619T010833_20190619T010955_C001  CS_OFFL_SIR_GOPR_2_20190619T013334_20190619T01955_C001  CS_OFFL_SIR_GOPR_2_20190619T031334_20190619T01955_C001  CS_OFFL_SIR_GOPR_2_20190619T031334_20190619T01955_C001  CS_OFFL_SIR_GOPR_2_20190619T031334_20190619T01955_C001  CS_OFFL_SIR_GOPR_2_20190619T031334_20190619T01955_C001  CS_OFFL_SIR_GOPR_2_20190619T031334_20190619T01955_C001  CS_OFFL_SIR_GOPR_2_20190619T031334_20190619T0145450001  CS_OFFL_SIR_GOPR_2_20190619T031334_20190619T0145450001  CS_OFFL_SIR_GOPR_2_20190619T031334_20190619T0145450001  CS_OFFL_SIR_GOPR_2_20190619T031334_20190619T031546_C001  CS_	CS_OFFL_SIR_GOPM_2_20190619T233642_20190619T234928_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_GOPN_2_20190619T145450_20190619T145455_C001  CS_OFFL_SIR_GOPN_2_20190619T163404_20190619T163409_C001  CS_OFFL_SIR_GOPN_2_20190619T173614_20190619T173628_C001  CS_OFFL_SIR_GOPN_2_20190619T173614_20190619T173628_C001  CS_OFFL_SIR_GOPN_2_20190619T180742_20190619T180908_C001  CS_OFFL_SIR_GOPN_2_20190619T180742_20190619T100955_C001  CS_OFFL_SIR_GOPR_2_20190619T010833_20190619T010955_C001  CS_OFFL_SIR_GOPR_2_20190619T031334_20190619T031546_C001  CS_OFFL_SIR_GOPR_2_20190619T031334_20190619T03154	CS_OFFL_SIR_GOPN_2_20190619T022243_20190619T022406_C001		
Backscatter Quality  CS_OFFL_SIR_GOPN_2_20190619T163404_20190619T163409_C001  Backscatter Quality  CS_OFFL_SIR_GOPN_2_20190619T173614_20190619T173628_C001  CS_OFFL_SIR_GOPN_2_20190619T173614_20190619T173628_C001  CS_OFFL_SIR_GOPN_2_20190619T180742_20190619T180908_C001  CS_OFFL_SIR_GOPN_2_20190619T180742_20190619T180908_C001  CS_OFFL_SIR_GOPR_2_20190619T010833_20190619T010955_C001  CS_OFFL_SIR_GOPR_2_20190619T010833_20190619T010955_C001  CS_OFFL_SIR_GOPR_2_20190619T031334_20190619T031546_C001  CS_OFFL_SIR_GOPR_2_20190619T031334_20190619T031546_C001  CS_OFFL_SIR_GOPR_2_20190619T043622_20190619T044152_C001  Backscatter Quality  COCG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocoa Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_GOPR_2_20190619T010833_20190619T010955_C001  CS_OFFL_SIR_GOPR_2_20190619T031334_20190619T031546_C001  CS_OFFL_SIR_GOPR_2_20190619T031334_20190619T031546_C001  CS_OFFL_SIR_GOPR_2_20190619T043622_20190619T044152_C001  CS_OFFL_SIR_GOPR_2_20190619T043622_20190619T044152_C001  COCA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_GOPR_2_20190619T043622_20190619T044152_C001  CCOCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_GOPR_2_20190619T043622_20190619T044152_C001  CCOCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CCOCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CCOCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CCOCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  CCCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one o	CS_OFFL_SIR_GOPN_2_20190619T064338_20190619T064500_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality  CS_OFFL_SIR_GOPN_2_20190619T173614_20190619T173628_C001  CS_OFFL_SIR_GOPN_2_20190619T180742_20190619T180908_C001  CS_OFFL_SIR_GOPN_2_20190619T180742_20190619T180908_C001  CS_OFFL_SIR_GOPN_2_20190619T180742_20190619T180908_C001  CS_OFFL_SIR_GOPR_2_20190619T010833_20190619T010955_C001  CS_OFFL_SIR_GOPR_2_20190619T010833_20190619T010955_C001  CS_OFFL_SIR_GOPR_2_20190619T010833_20190619T010955_C001  CS_OFFL_SIR_GOPR_2_20190619T031334_20190619T031546_C001  CS_OFFL_SIR_GOPR_2_20190619T03	CS_OFFL_SIR_GOPN_2_20190619T145450_20190619T145455_C001		
CS_OFFL_SIR_GOPN_2_20190619T173614_20190619T173628_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_GOPN_2_20190619T180742_20190619T180908_C001  CS_OFFL_SIR_GOPR_2_20190619T010833_20190619T010955_C001  CS_OFFL_SIR_GOPR_2_20190619T010833_20190619T010955_C001  CS_OFFL_SIR_GOPR_2_20190619T031334_20190619T031546_C001  CS_OFFL_SIR_GOPR_2_20190619T044152_C001  CS_OFFL_SIR_GOPR_2_20190619T044152_C001  CS_OFFL_SIR_GOPR_2_20190619T044152_C001  CS_OFFL_SIR_GOPR_2_20190619T044152_C001  CS_OFFL_SIR_GOPR_2_20190619T044152_C001  CS_OFFL_SIR_GOPR_2_20190619T044152_C001  CS_OFFL_SIR_GOPR_2_20190619T044	CS_OFFL_SIR_GOPN_2_20190619T163404_20190619T163409_C001		
Backscatter Quality  Cs_OFFL_SIR_GOPR_2_20190619T010833_20190619T010955_C001  Cs_OFFL_SIR_GOPR_2_20190619T010833_20190619T010955_C001  Cs_OFFL_SIR_GOPR_2_20190619T031334_20190619T031546_C001  Cs_OFFL_SIR_GOPR_2_20190619T03	CS_OFFL_SIR_GOPN_2_20190619T173614_20190619T173628_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_20190619T010833_20190619T010955_C001  and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been	CS_OFFL_SIR_GOPN_2_20190619T180742_20190619T180908_C001		
CS_OFFL_SIR_GOPR_2_20190619T031334_20190619T031546_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been a	CS_OFFL_SIR_GOPR_2_20190619T010833_20190619T010955_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_20190619T043622_20190619T044152_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_GOPR_2_20190619T031334_20190619T031546_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_GOPR_2_20190619T043622_20190619T044152_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_GOPR_2_20190619T050622_20190619T050752_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190619T123626_20190619T123701_C001	5 3.	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

# L2 Quality Flags (20Hz PLRM)

Currently, there are several common flags raised in the Level 2 products, which are summarised below. The table provides the full list of products flagged.

- > Ocean Altimeter Range, SSHA, SWH and Backscatter PLRM Quality Flags: These flags are currently set for occasional records over sea ice.
- > OCOG Altimeter Range and Backscatter PLRM Quality Flags: These flags are currently set for occasional records over continental ice.

Number of products with errors: 104

Product Product	Test Failed	Description
	OCOG Altimeter Range Quality PLRM,	The OCOG Range and Backscatter Quality Flags have been set for one or
CS_OFFL_SIR_GOPN_2_20190619T000727_20190619T000911_C001	OCOG Backscatter Quality	more records.
	OCOG Altimeter Range Quality PLRM,	The OCOG Range and Backscatter Quality Flags have been set for one or
CS_OFFL_SIR_GOPN_2_20190619T005620_20190619T005808_C001	OCOG Backscatter Quality	more records.
CS_OFFL_SIR_GOPN_2_20190619T010120_20190619T010243_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190619T013608_20190619T013757_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
	·	
CS_OFFL_SIR_GOPN_2_20190619T021427_20190619T021811_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
	Door Businessatter Quality	more records.
CS_OFFL_SIR_GOPN_2_20190619T022243_20190619T022406_C001	OCOG Altimeter Range Quality PLRM,	The OCOG Range and Backscatter Quality Flags have been set for one or
	OCOG Backscatter Quality	more records.
CS OFFL SIR GOPN 2 20190619T022823 20190619T022848 C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OF E_SIN_GOFN_Z_201900191022023_201900191022040_C001	Altimeter Range and Backscatter Quality PLRM	set for one or more records.
	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_GOPN_2_20190619T023302_20190619T023741_C001	Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
		The OCOC Desire and Decksonther Quality Flore have been estification as
CS_OFFL_SIR_GOPN_2_20190619T024346_20190619T024549_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
	Ocean Altimeter Range, SSHA, SWH	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_GOPN_2_20190619T031546_20190619T031723_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
	PLRM	set tot one of more records.
CS_OFFL_SIR_GOPN_2_20190619T032427_20190619T032717_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
	Ocean Altimeter Range, SSHA, SWH	
CS_OFFL_SIR_GOPN_2_20190619T045533_20190619T045921_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
	PLRM	set for one or more records.
CS_OFFL_SIR_GOPN_2_20190619T050507_20190619T050622_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
	Altimeter Range and Backscatter Quality PLRM	set for one or more records.
CS_OFFL_SIR_GOPN_2_20190619T052547_20190619T052725_C001	OCOG Altimeter Range Quality PLRM,	The OCOG Range and Backscatter Quality Flags have been set for one or
	OCOG Backscatter Quality	more records.
CS OFFI SID CODN 2 20100610T052412 20100610T052603 C001	OCOG Altimeter Range Quality PLRM,	The OCOG Range and Backscatter Quality Flags have been set for one or
CS_OFFL_SIR_GOPN_2_20190619T053412_20190619T053603_C001	OCOG Backscatter Quality	more records.
OD OFFI OID OODN A GAGGGGGTGTAAN GAGGGGGTGTAAN	OCOG Altimeter Range Quality PLRM,	The OCOG Range and Backscatter Quality Flags have been set for one or
CS_OFFL_SIR_GOPN_2_20190619T054110_20190619T054232_C001	OCOG Backscatter Quality	more records.
	OCOG Altimeter Range Quality PLRM,	The OCOG Range and Backscatter Quality Flags have been set for one or
CS_OFFL_SIR_GOPN_2_20190619T055431_20190619T055553_C001	OCOG Backscatter Quality	more records.
	OCOC Altimator Barrier Overlite BLDM	The OCOC Bangs and Backgootter Cuality Flare have been as for any
CS_OFFL_SIR_GOPN_2_20190619T055634_20190619T055812_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
	0000 4111 4 70 71 71 71 71	
CS_OFFL_SIR_GOPN_2_20190619T070457_20190619T070747_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190619T082247_20190619T082354_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190619T090144_20190619T090359_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
	The state of the s	
CS_OFFL_SIR_GOPN_2_20190619T090458_20190619T090617_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
	Daunscaller Quality	1000100.

CS_OFFL_SIR_GOPN_2_20190619T094207_20190619T094209_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190619T095032_20190619T095202_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190619T095955_20190619T100139_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190619T103935_20190619T104224_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190619T104227_20190619T104337_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190619T104402_20190619T104528_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190619T112944_20190619T113128_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190619T114130_20190619T114432_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190619T115616_20190619T120225_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190619T121956_20190619T122130_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190619T122135_20190619T122419_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190619T130903_20190619T131106_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190619T135851_20190619T140241_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190619T140756_20190619T140826_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190619T142000_20190619T142205_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190619T144833_20190619T145056_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190619T162754_20190619T162918_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190619T163740_20190619T163900_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190619T171531_20190619T171654_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190619T171800_20190619T171858_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190619T174824_20190619T174921_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190619T181432_20190619T181743_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190619T191027_20190619T191207_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190619T191335_20190619T191358_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190619T191521_20190619T191607_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190619T192322_20190619T192637_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190619T194720_20190619T194835_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_GOPN_2_20190619T213235_20190619T213902_C001	Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190619T222315_20190619T222436_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190619T230325_20190619T230933_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190619T002415_20190619T003056_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190619T003056_20190619T003304_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190619T004721_20190619T005326_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190619T005857_20190619T010120_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190619T022440_20190619T022707_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190619T022848_20190619T023302_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190619T031334_20190619T031546_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190619T032717_20190619T032848_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190619T035735_20190619T035824_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190619T040532_20190619T041344_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190619T045211_20190619T045533_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190619T054015_20190619T054110_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190619T054644_20190619T055431_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190619T055553_20190619T055633_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190619T063140_20190619T063510_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190619T064500_20190619T064723_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190619T071722_20190619T071825_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190619T071825_20190619T072312_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190619T072647_20190619T073544_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190619T081024_20190619T081225_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190619T082354_20190619T082724_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190619T090617_20190619T091344_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190619T100139_20190619T100834_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190619T121656_20190619T121903_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_GOPR_2_20190619T121941_20190619T121956_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190619T122419_20190619T123131_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190619T124501_20190619T125029_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190619T125054_20190619T125249_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190619T132055_20190619T132259_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190619T134857_20190619T135056_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190619T140241_20190619T140756_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190619T140826_20190619T141101_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190619T145952_20190619T150202_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190619T152832_20190619T153027_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190619T153933_20190619T154829_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190619T154849_20190619T155119_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190619T173054_20190619T173217_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190619T173628_20190619T173745_C001	OCOG Altimeter Range Quality PLRM,	The OCOG Range and Backscatter Quality Flags have been set for one or
CS_OFFL_SIR_GOPR_2_20190619T180526_20190619T180742_C001	OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190619T181743_20190619T182118_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	
CS_OFFL_SIR_GOPR_2_20190619T185608_20190619T190421_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190619T190421_20190619T190550_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190619T194348_20190619T194720_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190619T195655_20190619T200029_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190619T203644_20190619T204319_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_20190619T204319_20190619T204745_C001	Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG	set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_20190619T212108_20190619T212806_C001	Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190619T221554_20190619T2222206_C001	Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG	set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_GOPR_2_20190619T222206_20190619T222315_C001	Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	set for one or more records.  The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190619T224538_20190619T224752_C001	Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190619T235541_20190619T235641_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190619T235955_20190620T000235_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

# L2 Quality Flags (1 Hz & 1Hz PLRM)

Currently, there are several common flags raised in the Level 2 products, which are summarised below.

> 1Hz and 1Hz Ocean SSHA Quality Flags: These flags are currently set for products over sea ice, which is to be expected.

#### 5.8 L2 Ocean Retracking Quality Check

#### L2 Retracking Flags (20Hz)

CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below.

Number of products with errors:

61

#### L2 Retracking Flags (20Hz, PLRM)

CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLRM measurement record. The bit value of this flag indicates any problems when set.

Ocean Retracking Quality Flag (PLRM): This flag is currently set for products GOPR and GOPN products over sea ice, but this is to be expected.

Number of products with errors:

154

# 6. GOP L2 Pole-to-Pole Data Quality Check

## 6.1 P2P Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a NetCDF product file (.nc).

Number of products with errors:

0

#### 6.2 P2P Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.

Number of products with errors:

0

#### 6.3 P2P Auxiliary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.

Number of products with errors:

0

## 6.4 P2P Auxiliary Correction Error Check

For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767).

Currently, there are some common auxiliary correction errors raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

> ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are not reported in the table below.

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- > Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected.
- > Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220190619T000210_20190619T005144_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20190619T005144_20190619T014123_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220190619T014123_20190619T023057_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220190619T023057_20190619T032037_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220190619T041011_20190619T045951_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220190619T045951_20190619T054925_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220190619T054925_20190619T063904_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220190619T063904_20190619T072838_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220190619T072838_20190619T081818_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220190619T081818_20190619T090752_C001	Mean Sea Suriace (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Pariod	There is an error with the wiss neight (solution 1) and the weah bynamic Topography height (solution 1), the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records.
CS_OFFL_SIR_GOP_220190619T090752_20190619T095731_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20190619T095731_20190619T104705_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_220190619T104705_20190619T113645_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20190619T113645_20190619T122619_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220190619T122619_20190619T131558_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

CS_OFFL_SIR_GOP_2_20190619T131558_20190619T140532_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20190619T140532_20190619T145512_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20190619T145512_20190619T154446_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20190619T154446_20190619T163426_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20190619T163426_20190619T172400_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20190619T172400_20190619T181339_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20190619T181339_20190619T190313_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20190619T190313_20190619T195253_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20190619T195253_20190619T204227_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20190619T204227_20190619T213206_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20190619T213206_20190619T222140_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_GOP_2_20190619T222140_20190619T231120_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20190619T231120_20190620T000054_C002	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records

## 6.5 P2P Measurement Confidence Data Check

CryoSat P2P data includes a measurement confidence flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

3

## 6.6 P2P Measurement Quality Flag Check

#### P2P Quality Flags (20Hz)

CryoSat P2P data includes Quality Flags for each 20 Hz, 20 Hz PLRM and 1 Hz measurement record, copied from the corresponding L2 products.

Since the P2P Quality Flags are copied directly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.

Number of products with errors: 29

#### P2P Quality Flags (20Hz PLRM)

Since the P2P Quality Flags are copied directly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.

Number of products with errors: 2

## P2P Quality Flags (1 Hz & 1Hz PLRM)

Since the P2P Quality Flags are copied directly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.

Number of products with errors:

## 6.8 P2P Ocean Retracking Quality Check

# P2P Retracking Flags (20Hz)

Cryosat P2P data includes an ocean retracking quality flag (field 19) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Ocean Retracking Quality Flag (PLRM): This flag is currently set for products GOPR and GOPN products over sea ice, but this is to be expected.

Number of products with errors: 2

# P2P Retracking Flags PLRM

CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLRM measurement record. The bit value of this flag indicates any problems when set.

Ocean Retracking Quality Flag (PLRM): This flag is currently set for products GOPR and GOPN products over sea ice, but this is to be expected.

Number of products with errors: 28